
Pulsed laser ablation in liquids by nanosecond and femtosecond sources. Features of the process

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The presented results of measuring gold and silver nanoparticles parameters were obtained by the method of pulsed laser ablation in liquid. We used different optical spectral methods and electron microscopy to carry out measurements. For the synthesis of nanoparticles we chose the second harmonic of Nd:YAG laser with a 532 nm wavelength, and irradiation of femtosecond laser S-PulseHR (wavelength 1030 nm). As a qualitative result we present the absorption spectra of the nanoparticles and nanoparticle pictures.

Keywords: laser ablation, nanoparticles, synthesis of nanoparticles, absorption spectra.

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